

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022720\
 Data File : VL034704.D
 Acq On : 27 Feb 2020 10:21
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 2/28/2020 12:32:26 PM

Quant Time: Feb 28 01:18:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1008643	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.21	114	2103984	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.15	117	2303778m	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1819618	9.63	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1265454	7.953 ppbv	92
3) Chlorodifluoromethane	2.97	51	1056353	9.705 ppbv	99
4) Chloromethane	3.12	50	580700	9.530 ppbv	97
5) Vinyl Chloride	3.24	62	584211	9.773 ppbv	99
6) Bromomethane	3.46	94	349875	9.990 ppbv	99
7) Chloroethane	3.55	64	212678	9.584 ppbv	94
8) Dichlorotetrafluoroethane	3.17	85	1310891	9.314 ppbv	100
9) Propene	2.99	41	436581	9.595 ppbv	100
10) Heptane	8.16	43	1205379	10.292 ppbv	99
11) Trichlorofluoromethane	3.94	101	1359068	9.752 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	938091	9.549 ppbv	100
13) Ethanol	3.60	45	138119	9.609 ppbv	96
14) Bromoethene	3.73	108	405882	9.902 ppbv	99
15) Acetone	3.84	43	1028084	8.945 ppbv	100
16) 1,3-Butadiene	3.31	39	522647	9.823 ppbv	100
17) tert-Butyl alcohol	4.29	59	1070530	12.155 ppbv	100
18) 1,1-Dichloroethene	4.29	96	432144	9.798 ppbv	96
19) Isopropyl Alcohol	3.97	45	809403	11.823 ppbv	99
20) Methylene Chloride	4.35	84	380455	8.900 ppbv	98
21) Allyl Chloride	4.41	41	763677	10.043 ppbv	98
22) trans-1,2-Dichloroethene	4.89	96	427351	9.938 ppbv	97
23) Vinyl Acetate	5.09	43	1676831	10.731 ppbv	98
24) 1,1-Dichloroethane	5.02	63	1222094	9.793 ppbv	99
25) Ethyl Acetate	5.70	43	2029909	9.977 ppbv	100
26) Hexane	5.71	57	917765	9.787 ppbv	99
27) Carbon Disulfide	4.55	76	1110893	10.436 ppbv	98
28) Methyl tert-Butyl Ether	5.04	73	1378236	10.288 ppbv	100
29) Chloroform	5.77	83	1447168	9.686 ppbv	99
30) Cyclohexane	7.16	84	742896	10.222 ppbv	99
31) cis-1,2-Dichloroethene	5.57	61	951588	10.312 ppbv	94
32) 1,1,1-Trichloroethane	6.54	97	1401359	10.044 ppbv	100
34) 2-Butanone	5.26	43	1332908	10.065 ppbv	100
35) Carbon Tetrachloride	7.05	117	1438893	10.212 ppbv	98
36) Benzene	6.93	78	1812643	9.975 ppbv	96
37) 1,2-Dichloroethane	6.33	62	1178160	10.285 ppbv	98
38) Trichloroethene	7.88	130	684957	9.779 ppbv	97
39) 1,2-Dichloropropane	7.65	63	725049	10.029 ppbv	98
40) 1,4-Dioxane	7.87	88	265226	10.788 ppbv	# 1
41) Tetrahydrofuran	6.07	42	750942	10.743 ppbv	100
42) Bromodichloromethane	7.83	83	1564008	10.429 ppbv	98
43) Methyl Methacrylate	8.05	69	844071	11.044 ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3163997	9.962	ppbv	99
45) t-1,3-Dichloropropene	9.33	75	993901	11.916	ppbv	97
46) cis-1,3-Dichloropropene	8.75	75	1148219	11.479	ppbv	99
47) 1,1,2-Trichloroethane	9.53	97	742389	10.009	ppbv	97
48) Dibromochloromethane	10.36	129	1244423	10.790	ppbv	99
49) Bromoform	13.10	173	1100313	11.003	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	2001277	10.669	ppbv	99
51) 2-Hexanone	10.18	43	1649440	11.174	ppbv #	99
52) Tetrachloroethene	11.28	164	625599	9.392	ppbv	96
53) Toluene	9.86	91	2063088	10.674	ppbv	99
54) 1,2-Dibromoethane	10.67	107	1149889	10.392	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.19	131	931009	9.489	ppbv #	93
57) Chlorobenzene	12.21	112	1532842	9.002	ppbv	99
58) Ethyl Benzene	12.77	91	2771230	9.942	ppbv	99
59) m/p-Xylene	13.06	91	4567130m	18.787	ppbv	
60) o-Xylene	13.76	91	2266282	9.394	ppbv	100
61) Styrene	13.59	104	1606868	10.370	ppbv	98
62) Isopropylbenzene	14.73	105	3298593	9.373	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	1621349	8.623	ppbv	99
64) n-propylbenzene	15.63	120	853175m	9.404	ppbv	
65) tert-Butylbenzene	16.82	119	2866069	9.432	ppbv	99
66) Benzyl Chloride	17.07	91	1311611	11.572	ppbv	99
67) sec-Butylbenzene	17.37	105	4082689	9.337	ppbv	100
69) p-Isopropyltoluene	17.73	119	3413100	9.482	ppbv	100
70) n-Butylbenzene	18.63	91	3682308	9.395	ppbv	100
71) 2-Chlorotoluene	15.53	91	2623491	9.626	ppbv	99
72) 4-Ethyltoluene	15.91	105	2667601	9.935	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	2503314	9.692	ppbv	98
74) 1,2,4-Trimethylbenzene	16.83	105	2578813	9.040	ppbv	99
75) 1,3-Dichlorobenzene	17.07	146	1477856	8.975	ppbv	100
76) 1,4-Dichlorobenzene	17.21	146	1476373	8.962	ppbv	98
77) 1,2-Dichlorobenzene	17.89	146	1420953	8.926	ppbv	98
78) Hexachloro-1,3-Butadiene	23.45	225	1233772	8.901	ppbv	99
79) Naphthalene	22.30	128	2423123	9.652	ppbv	97
80) Naphthalene, 2-methyl-	25.04	142	1097582	14.175	ppbv	95
81) 1,2,4-Trichlorobenzene	22.03	180	1387179	9.258	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

